

# Hibernate 1 & 2

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### Assignment:

1. Employee [id, firstName LastName] OneToOneMapping with EmployeeDetails[phone and email]
2. OneToMany with Address [without Jointable] [Address has streetName,city,pincode]
3. ManyToMany[Courses] Only 1 Join Table. [Course has CourseName]

Code has been added as a separate folder

### Main code:

```
SessionFactory sessionFactory = new
Configuration().configure().addAnnotatedClass(Employee.class)
    .addAnnotatedClass(EmployeeDetails.class)
    .addAnnotatedClass(Address.class)
    .addAnnotatedClass(Course.class)
    .buildSessionFactory();

Session session = sessionFactory.openSession();

Employee employee1 = new Employee("Ajay", "S");

Employee employee2 = new Employee("Kure", "Ryan");

EmployeeDetails employeeDetails = new EmployeeDetails();
employeeDetails.setEmployee(employee1);
employeeDetails.setEmail("demo@gmail.com");
employeeDetails.setPhone("9895053047");

EmployeeDetails employeeDetails2 = new EmployeeDetails();
employeeDetails2.setEmployee(employee2);
employeeDetails2.setEmail("demo2@gmail.com");
```

```

employeeDetails2.setPhone("9895053047");

Address empAddress = new Address();
empAddress.setCity("Kumily");
empAddress.setStreetName("Rosapookandam");
empAddress.setPinCode(685509);
empAddress.setEmployeeId(1);

Address empAddress2 = new Address();
empAddress2.setCity("1st Mile");
empAddress2.setStreetName("Church street");
empAddress2.setPinCode(685509);
empAddress2.setEmployeeId(1);

Address empAddress3 = new Address();
empAddress3.setCity("2nd Mile");
empAddress3.setStreetName("Rosapookandam");
empAddress3.setPinCode(685509);
empAddress3.setEmployeeId(2);

Course course1 = new Course("Demo 1");

Course course2 = new Course("Demo 2");

Course course3 = new Course("Demo 3");

Set<Course> courseSet = new HashSet<>();
courseSet.add(course1);
courseSet.add(course2);

employee1.setCourses(courseSet);

Set<Course> courseSet2 = new HashSet<>();
courseSet2.add(course1);
courseSet2.add(course2);
courseSet2.add(course3);

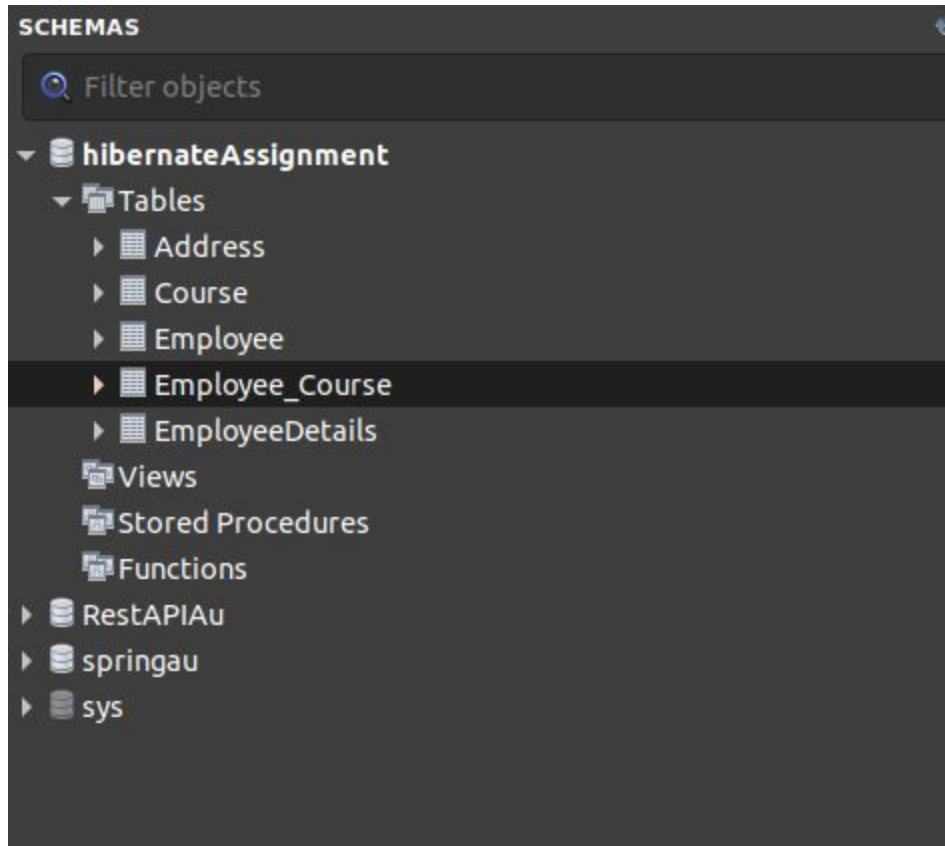
employee2.setCourses(courseSet2);

try{
    session.beginTransaction();
    session.save(course1);
    session.save(course2);
    session.save(course3);
    session.save(employee1);
    session.save(employee2);
    session.save(empAddress);
    session.save(empAddress2);
    session.save(empAddress3);
    session.save(employeeDetails);
    session.save(employeeDetails2);
    session.getTransaction().commit();
}finally {
    session.close();
    sessionFactory.close();
}

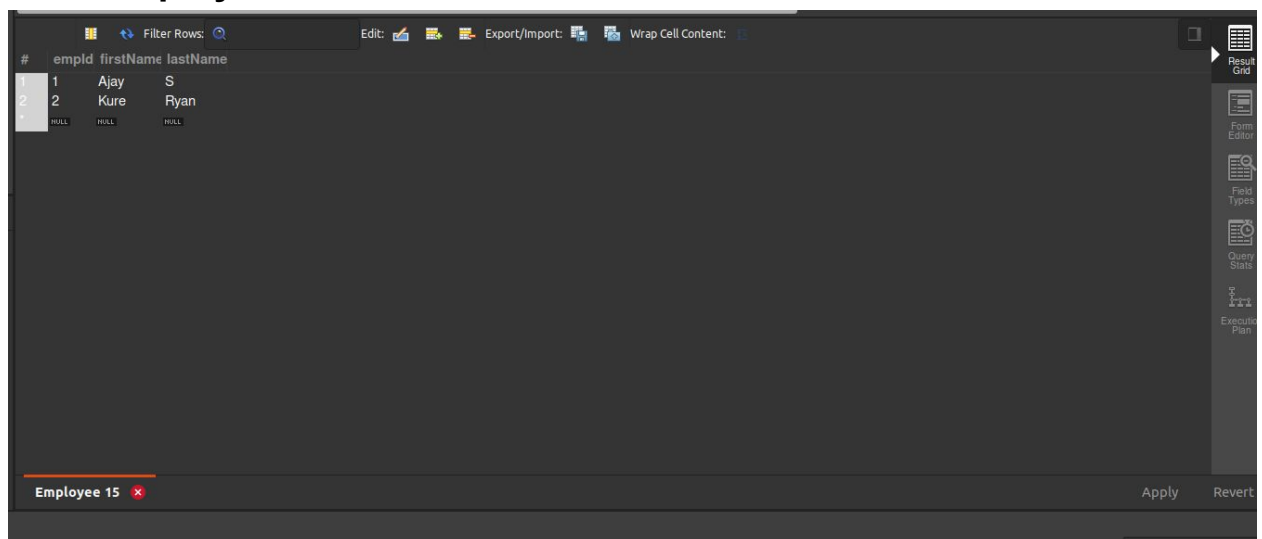
```

## Screenshots:

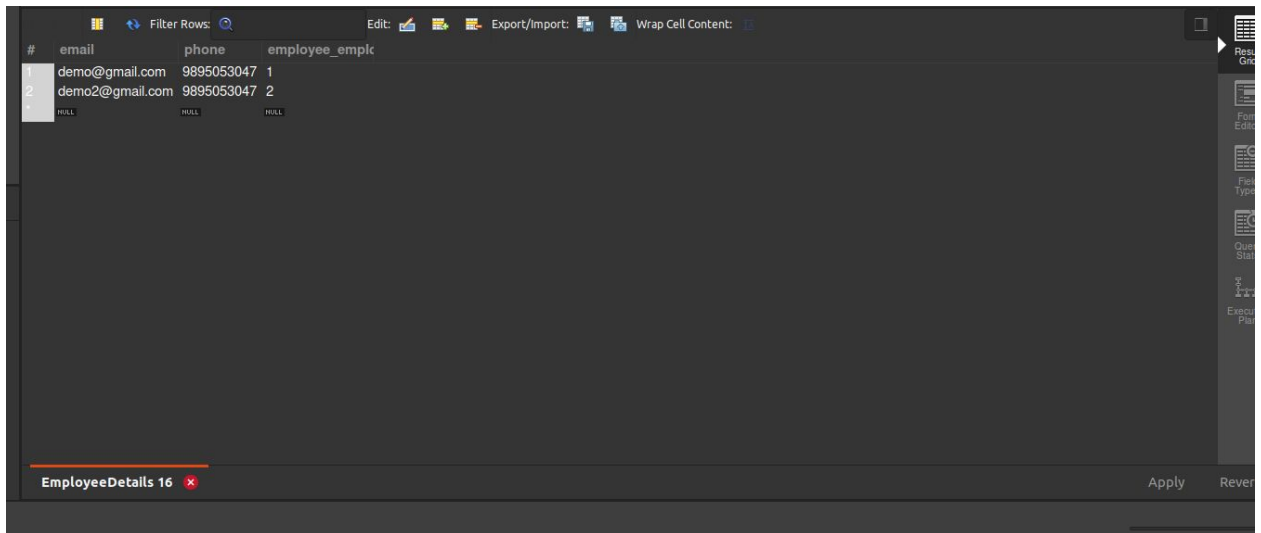
### 1. Tables created



### 2. Employee table



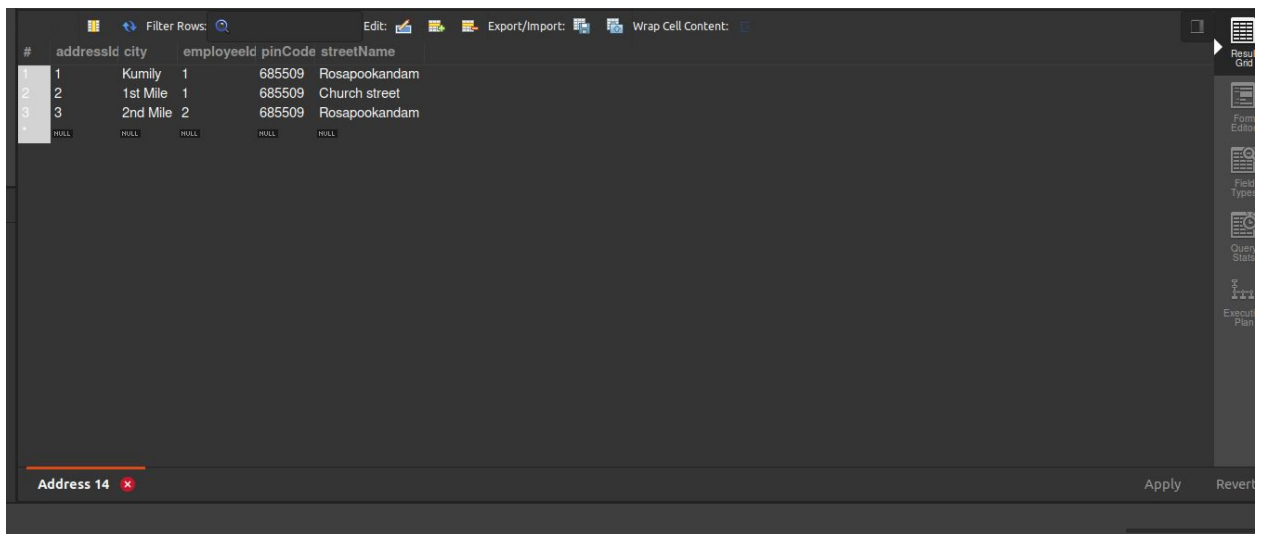
### 3. Details table



#	email	phone	employee_emplk
1	demo@gmail.com	9895053047	1
2	demo2@gmail.com	9895053047	2

EmployeeDetails 16

### 4. Address table



#	addressId	city	employeeId	pinCode	streetName
1	1	Kumily	1	685509	Rosapookandam
2	2	1st Mile	1	685509	Church street
3	3	2nd Mile	2	685509	Rosapookandam

Address 14

## 5. Course table

#	courseId	courseName
1	1	Demo 1
2	2	Demo 2
3	3	Demo 3
4	NULL	NULL

## 6. Employee course

#	Employee_empl	courses_courseId	courses_courseName
1	1	1	Demo 1
2	2	1	Demo 2
3	1	2	Demo 2
4	2	2	Demo 2
5	2	3	Demo 3
6	NULL	NULL	